Thermal

Image Sensor	VOx Uncooled Focal Plane Arrays
Resolution	384×288
Pixel Interval	17μm
Response Waveband	8μm to 14μm
NETD	Less than 40 mK (@25°C,F#=1.0)
Focal Length	15mm
Focus Mode	Athermalized
IFOV	1.13 mrad
Aperture	F1.0
Field Of View	24.2°× 18.4° (H × V)
Min. Focusing Distance	2.5 m

Optical

Image Sensor	1/2.7" Progressive Scan CMOS
Resolution	2688×1520, 4MP
Min. Illumination	Color: 0.0089 Lux @(F1.6, AGC ON), B/W: 0.0018 Lux @(F1.6, AGC ON)
Field Of View	51.7° × 28° (H × V)
Focal Length	6mm
Focus Mode	Fixed
Shutter Speed	1s to 1/100,000s
White Balance	Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Daylight Lamp/Sodium Lamp

Day & Night Mode	IR cut filter with auto switch
WDR	120 dB

Illuminator

IR Distance	Up to 50 m
IR Intensity And Angle	Automatically adjusted

Feature

Bi-Spectrum Image Fusion	Display the details of optical channel on thermal channel
Picture In Picture	Display partial image of thermal channel on the full screen of optical channel

Smart Function

Temperature Measurement	Support 3 temperature measurement rule types, 21 rules (10 points, 10 areas, and 1 line).
Temperature Range	From 30°C to 45°C (86°F ~ 113°F)
Temperature Accuracy	± 0.5 °C

Network

Main Stream	Thermal: 50fps(1280 × 720, 704 × 576, 384 × 288, 352 × 288);Optical: 50Hz: 25fps (1920 × 1080), 25fps (1280 × 960), 25fps (1280 × 720);Optical: 60Hz: 30fps (1920 × 1080), 30fps (1280 × 960), 30fps (1280 × 720)
Sub Stream	Thermal: 25fps(704 × 576, 352 × 288, 320 × 240);Optical: 50Hz:

	25fps (704 × 576), 25fps (352 × 288), 25fps (176 × 144);Optical: 60Hz: 30fps (704 × 480), 30fps (352 × 240), 30fps (176 × 120)
Video Compression	H.264 (Baseline/Main/High Profile) /MJPEG/H.265
Audio Compression	G .711u/G.711a/G.722.1/MP2L2/G.726/PCM
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK
Security	Password protection, HTTPS encryption, 802.1X authentication (EAP-TLS 1.2, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, RTP over HTTPS
Simultaneous Live View	Up to 20

Interface

Client	iVMS-4200, Hik-Connect
Web Browser	Plug-in required: IE8-IE11, Chrome 41-44, Firefox 30.0-51
Alarm Input	2-ch inputs (0-5vDC)
Alarm Output	2-ch relay outputs, alarm response actions configurable
Alarm Action	SD recording/Relay output/Smart capture/FTP upload/Email linkage
Audio Input	1, 3.5 mm Mic in/Line in interface. Line input: 2 - 2.4 V [p-p], output impedance: 1 KΩ ± 10%
Audio Output	Linear Level; Impedance: 600Ω

RS485	1, RJ45 10M/100M Self-adaptive Ethernet interface. 1, RS-485 interface
Analog Video Output	1.0V [p-p]/75Ω, BNC, PAL/NTSC
Communication Interface	1, RJ45 10M/100M Self-adaptive Ethernet interface. 1, RS-485 interface
On-Board Storage	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 128G), support manual/alarm recording

General

Web Client Language	32 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Wiper	No
User/Host Level	Up to 32 users, 3 levels: Administrator, Operator, User
Power	24 VAC ± 25%;12 VDC ± 25%;PoE (802.3af, class 3): 44 V to 57 V, 0.22 A to 0.17 A
Power Consumption	18 VAC to 30 VAC: 0.38 A to 0.22 A, max. 9 W 9 VDC to 15 VDC: 0.63 A to 1.06 A, max. 9 W PoE (802.3af, class 3): 44 V to 57 V, 0.22 A to 0.17 A, max. 9.5 W
Work Temperature/Humidity	From 10 °C to 35 °C (Indoor and windless environment use only); Humidity: 95% or Less

Protection Level	IP66 Standard; TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Dimension	376.1 mm × 119.1 mm × 118.1 mm (14.81" × 4.68" × 4.65")
Weight	Approx. 1.82 kg (4.01 lb)